

Title (en)  
DISTRIBUTED MOBILITY MANAGEMENT TECHNOLOGY IN A NETWORK ENVIRONMENT

Title (de)  
TECHNOLOGIE FÜR VERTEILTE MOBILITÄTSVERWALTUNG IN EINER NETZWERKUMGEBUNG

Title (fr)  
TECHNOLOGIE DE GESTION DE MOBILITÉ DISTRIBUÉE DANS UN ENVIRONNEMENT DE RÉSEAU

Publication  
**EP 3654621 A1 20200520 (EN)**

Application  
**EP 20150532 A 20131129**

Priority  
• US 201261732161 P 20121130  
• EP 13815203 A 20131129  
• US 2013072485 W 20131129

Abstract (en)  
Embodiments contemplate that the transfer of an Internet Protocol (IP) address from one (e.g. a first) Gateway (GW) to another (e.g. a second) Gateway (GW) may improve the Dynamic Mobility Management (DMM) handling in any network environment, including a dense network environment. Embodiments contemplate a dense network may enable a User Equipment (UE or wireless transmit/receive unit (WTRU)) to be connected to the closest GW while the IP address transfer may enable usage of a relatively short data path (e.g. perhaps a "shortest" data path), which may be useful in the context of DMM, perhaps even for existing flows. Using the contemplated capability of moving IP addresses may minimize the number of IP addresses allocated and/or the number of tunnels to be maintained.

IPC 8 full level  
**H04L 29/12** (2006.01); **H04W 8/14** (2009.01); **H04W 36/00** (2009.01)

CPC (source: EP US)  
**H04L 61/5007** (2022.05 - EP US); **H04W 8/14** (2013.01 - US); **H04W 36/0016** (2013.01 - US); **H04W 36/0019** (2023.05 - EP US)

Citation (search report)  
• [I] US 2010111040 A1 20100506 - PERRAS MICHELLE [CA]  
• [I] CARLOS J BERNARDOS ET AL: "Towards flat and distributed mobility management: A 3GPP evolved network design", COMMUNICATIONS (ICC), 2012 IEEE INTERNATIONAL CONFERENCE ON, IEEE, 10 June 2012 (2012-06-10), pages 6855 - 6861, XP032274609, ISBN: 978-1-4577-2052-9, DOI: 10.1109/ICC.2012.6364784  
• [A] GUNDAVELLI S ET AL: "Proxy Mobile IPv6; rfc5213.txt", PROXY MOBILE IPV6; RFC5213.TXT, INTERNET ENGINEERING TASK FORCE, IETF; STANDARD, INTERNET SOCIETY (ISOC) 4, RUE DES FALAISES CH- 1205 GENEVA, SWITZERLAND, 1 August 2008 (2008-08-01), XP015060252  
• [A] KUNTZ TOYOTA ITC D SUDHAKAR UCLA R WAKIKAWA TOYOTA ITC L ZHANG UCLA R: "A Summary of Distributed Mobility Management; draft-kuntz-dmm-summary-01.txt", A SUMMARY OF DISTRIBUTED MOBILITY MANAGEMENT; DRAFT-KUNTZ-DMM-SUMMARY-01.TXT, INTERNET ENGINEERING TASK FORCE, IETF; STANDARDWORKINGDRAFT, INTERNET SOCIETY (ISOC) 4, RUE DES FALAISES CH- 1205 GENEVA, SWITZERLAND, no. 1, 12 August 2011 (2011-08-12), pages 1 - 23, XP015077655

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**US 2013072485 W 20131129**; EP 13815203 A 20131129; EP 20150532 A 20131129; JP 2015545484 A 20131129;  
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